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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR			ATTORNEY DOCKET NO.
09/560,268	04/26/00	LEE		W	150.0056 010
_			٦	EXAMINER	
		IM22/08:			
ATTN MARK J	GEBHARDT		1	DEO.D	
MUETING RAA	SCH GEBHARD	T PA		ART UNIT	PAPER NUMBER
PO BOX 5814	15				9
MINNEAPOLIS	MN 55458-14	415		1765	•
				DATE MAILED:	
					08/15/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

		Application No.	Applicant(s)				
		09/560,268	LEE ET AL.				
	Office Action Summary	Examiner	Art Unit				
		DuyVu n Deo	1765				
Th MAILING DATE of this communication appears on the cov r sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status							
1)⊠	Responsive to communication(s) filed on 30 J	<u>uly 2001</u> .					
2a) <u></u> ☐	This action is FINAL. 2b)⊠ Thi	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>56-61</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>56-61</u> is/are rejected.							
7)	Claim(s) is/are objected to.						
8)□	Claim(s) are subject to restriction and/or	election requirement.					
Applicati	ion Papers						
9) 🗌 🤈	The specification is objected to by the Examiner	•					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12)☐ The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) The translation of the foreign language provisional application has been received.							
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4) Interview Summary (PTO-413) Paper No(s) 5) Notice of Informal Patent Application (PTO-152) 6) Other:							

Application/Control Number: 09/560,268

Art Unit: 1765

DETAILED ACTION

1. The Final Office Action sent 5/8/01 are withdrawn and claims 56-61 are moot in view of the new ground(s) of rejection.

The amendment filed 7/30/01 has been entered.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claim 60 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 60 is indefinite for use of improper Markush language. The examiner suggests replacing "a" group with -the- group.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 56-61 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tsai et al. (US 5,486,266) of Thiel (US 4,316,765).

Tsai teaches a composition containing HCl (mineral acid), H2O2, and water in ratio of 1:1:6-10 (col. 4, line 6-8). Unlike claimed invention, he doesn't describe DI water. Using DI water to prepare similar chemical bath is well known by one skilled in the art as shown by Thiel

Application/Control Number: 09/560,268

Art Unit: 1765

(col. 2, line 56), and would have been obvious, so that the chemical bath doesn't contain other

contamination.

This composition would inherently have a metal etch as that of claim 61 since it contains

the same chemicals and with the same ratio as that of claimed invention.

Referring to claims 59, Tsai teaches that the concentration of chemicals in the solution

can be adjusted accordingly (col. 3, line 26-30). Therefore, it would have been obvious for one

skill in the art to determine the optimum chemicals ratio in the solution through test runs with an

anticipation of an expected result. See in re Aller et al., 105 USPQ 233.

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to DuyVu n Deo whose telephone number is 703-305-0515.

DVD

August 13, 2001

GREGORY MILLS
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1700

Page 3